



1971-09

Naval Postgraduate School Graduation Exercises / Class of September 1971

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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U.S. NAVAL POSTGRADUATE SCHOOL MONTEREY, CALIFORNIA

GRADUATION EXERCISES

FRIDAY AFTERNOON, 24 SEPTEMBER 1971, AT FOUR O'CLOCK

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Superintendent
A. SCOTT GOODFELLOW
Rear Admiral, United States Navy

Provost
MILTON U. CLAUSER
Doctor of Philosophy

Chief of Staff
ROBERT Y. GAINES
Captain, United States Navy

Director
of Programs
DONALD W. KILEY
Captain, United States Navy

Director
of Military Operations and Logistics
JOHN E. McQUARY
Captain, United States Navy

Dean of Programs
W. F. KOEHLER
Doctor of Philosophy

MISSION

"To conduct and direct the Advanced Education of commissioned officers, and to provide such other technical and professional instruction as may be prescribed to meet the needs of the Naval Service; and in support of the foregoing, to foster and encourage a program of research in order to sustain academic excellence"

THE PROGRAM

PROCESSIONAL

Professor MELVIN F. REYNOLDS Grand Marshal
Professor ALFRED W. M. COOPER Marshal
Professor RUSSEL H. STOLFI Marshal
Lieutenant Colonel JOHN H. SMITH, U.S. Marine Corps Marshal

NATIONAL ANTHEM

INVOCATION

Captain WILLIAM R. SAMUEL, CHC, U.S. Navy

INTRODUCTION OF SPEAKER

Rear Admiral A. SCOTT GOODFELLOW, U.S. Navy

ADDRESS TO GRADUATES

Vice Admiral RAYMOND E. PEET, U.S. Navy
Commander, First Fleet

PRESENTATION OF NAVY LEAGUE OF MONTEREY AWARD FOR ACADEMIC IMPROVEMENT

PRESENTATION OF CNO COMMUNICATIONS AWARD

ANNOUNCEMENT OF DEGREES . Rear Admiral A. SCOTT GOODFELLOW, U.S. Navy
Provost MILTON U. CLAUSER

For the Degree of:

Presentation of Candidates by Department Chairman:

Bachelor of Arts with Major in Government /International Relations .	Professor BOYD F. HUFF
Bachelor of Science in Aeronautical Engineering	Professor RICHARD W. BELL
Bachelor of Science with Major in Business Administration .	Professor JACK R. BORSTING
Bachelor of Science with Major in Computer Science	Dean BROOKS J. LOCKHART
Bachelor of Science in Engineering Science	Dean BROOKS J. LOCKHART
Bachelor of Science in Electrical Engineering	Professor CHARLES H. ROTHAUGE
Bachelor of Science in Meteorology	Professor GEORGE J. HALTINER
Bachelor of Science with Major in Oceanography	Professor DALE F. LEIPPER
Bachelor of Science in Physics	Professor OTTO HEINZ
Master of Science in Aeronautical Engineering	Professor RICHARD W. BELL
Master of Science in Computer Science	Dean BROOKS J. LOCKHART
Master of Science in Engineering Acoustics	Dean BROOKS J. LOCKHART
Master of Science in Electrical Engineering	Professor CHARLES H. ROTHAUGE
Master of Science in Management	Professor JACK R. BORSTING
Master of Science in Operations Research	Professor JACK R. BORSTING
Master of Science with Major in Mathematics	Professor ROBERT E. GASKELL
Master of Science in Mechanical Engineering	Professor ROBERT H. NUNN
Master of Science in Meteorology	Professor GEORGE J. HALTINER
Master of Science in Oceanography	Professor DALE F. LEIPPER
Master of Science in Physics	Professor OTTO HEINZ
Electrical Engineer	Professor CHARLES H. ROTHAUGE

BENEDICTION

Captain WILLIAM R. SAMUEL, CHC, U.S. Navy

RECESSIONAL

PLATFORM PARTY

First Row (left to right)

Provost Milton U. Clauser
Provost, Naval Postgraduate School

Captain Edward T. Alberta, U.S. Navy
Assistant Commander for Operations and Readiness
Naval Communications Command

Colonel William L. Webb, Jr.
U. S. Army

Brigadier General Paul G. Graham
U. S. Marine Corps

Rear Admiral A. Scott Goodfellow, U.S. Navy
Superintendent, Naval Postgraduate School

Vice Admiral Raymond E. Peet, U.S. Navy
Commander, First Fleet

Mr. Gordon K. Reid, President
Monterey Peninsula Council of the Navy League

Captain Donald W. Kiley, U.S. Navy
Director of Programs
Naval Postgraduate School

Captain William R. Samuel, CHC, U.S. Navy
Chaplain, Naval Postgraduate School

Second Row

Professor Robert H. Nunn
Department of Mechanical Engineering

Professor Robert E. Gaskell
Department of Mathematics

Professor Otto Heinz
Department of Physics

Professor Dale F. Leipper
Department of Oceanography

Professor George J. Haltiner
Department of Meteorology

Professor Charles H. Rothauge
Department of Electrical Engineering

Dean Brooks J. Lockhart
Dean of Curricula

Professor Jack R. Borsting
Department of Operations Research
and Administrative Sciences

Professor Richard W. Bell
Department of Aeronautics

Professor Boyd F. Huff
Department of Government and Humanities

AWARDS

Recipient of the Navy League of Monterey Award
for Academic Improvement

Lieutenant Commander CORAL V. SCHUFELDT, U.S. Navy

Recipient of the CNO Communications Award

Lieutenant ROBERT E. MOLLET, U.S. Navy

Recipient of the CNO Communications Certificate

Commander JOHN P. McNICHOLS, JR., U.S. Navy

Naval Postgraduate School Curricular Officers

Commander JOHN D. HARTLEY, U.S. Navy
Operation Research /Systems Analysis

Commander DONALD W. MATHEWS, U.S. Navy
Aeronautical Engineering

Commander JOE M. JAMES, U.S. Navy
Electronics and Communications Engineering

Commander GEORGE C. SUP, U.S. Navy
Ordnance Systems Engineering

Captain JOHN R. WALES, U.S. Navy
Naval Engineering

Commander JAMES J. DADIGIAN, U.S. Navy
Environmental Sciences

Commander WINDOM L. ESTES, U.S. Navy
Management/Computer Science

Lieutenant Commander PHILIP J. O'CONNELL, U.S. Navy
Engineering Science

Commander LLOYD T. ZUEHLKE, U.S. Navy
Baccalaureate Programs

THE GRADUATES

Those officers whose names are preceded by an * are being given their degrees in absentia

Diploma of Completion

Computer Science

*DONALD R. PENNINGTON, LCDR, USN

Engineering Science

*GARY R. KAMP, LT, USN

*FREDERICK M. WISSING, LT, USN

Oceanography

*HARRY F. BALL, JR, LCDR, USN

Bachelor of Arts with Major in Government/International Relations

ALLAN W. ANDERSON, LT, USN

CLARENCE H. JUHL, LT, USN

VERNON R. BUSSARD, CDR, USN

*ROGER P. McTIGHE, CDR, USN

WILLIAM E. DENNISON, CDR, USN

KEITH O. NYMAN, LT, USN

BENJAMIN F. FOLSOM, JR, LT, USN

HAROLD T. NICKS, LT, USN

RONALD V. HILL, LCDR, USN

*RICHARD A. WILEY, LT, USN

Bachelor of Science in Aeronautical Engineering

THOMAS F. DOYLE, JR, LCDR, USN

MATTHEW T. MAXWELL, III, CDR, USN

GARY W. FISKE, LT, USN

DONALD O. TAYLOR, LT, USN

THOMAS R. GREEN, LCDR, USN

*ROBERT L. VENABLE, LCDR, USN

RUSSELL W. HARRISON, JR, LT, USN

ROBIN C. WOOD, LT, USN

Bachelor of Science with Major in Business Administration

WILFRED J. BERGERON, CDR, USN

NICHOLAS M. TARR, LCDR, USN

*THOMAS J. MOORE, LCDR, USN

Bachelor of Science with Major in Computer Science

*BURTON L. BENSON, LT, USN

SUPRAPTO, MAJ, Indonesian Navy

WILLIAM E. SMITH, LCDR, USN

Bachelor of Science in Engineering Science

GREGORY S. BOOTH, LT, USN	FREDRIC A. DUNBAR, CDR, USN
RICHARD S. BUTTERFIELD, LT, USN	*MALCOLM E. FITZGERALD, LCDR, USN
*THOMAS K. DAVIS, LT, USN	DANIEL E. JOHNSON, LT, USN
HENRY R. DOMBROWSKI, LCDR, USN	HALVOR N. PETERSEN, LCDR, USN

Bachelor of Science in Electrical Engineering

*SEYFETTIN ENGINLER, LTJG, Turkish Navy	*DAVID A. VETTER, LCDR, USN
*TAHSIN KARAN, LTJG, Turkish Navy	ROLAND L. WEIDT, LT, USN
JEFFREY S. PATTERSON, LCDR, USN	THOMAS R. WORTHAM, JR, LT, USN
WILLIAM W. POSENECKER, LT, USN	

Bachelor of Science in Meteorology

RICHARD C. CORKRUM, LCDR, USN

Bachelor of Science with Major in Oceanography

BARRY L. DOLGOW, LT, USN

Bachelor of Science in Physics

LEROY R. BANNACH, LCDR, USN	DONALD L. COVER, LCDR, USN
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Master of Science in Aeronautical Engineering

MERLIN R. HUCKEMEYER, CAPT, USMC	MICHAEL H. MERRITTS, LT, USN
JOHN A. BURT, LCDR, USN	RICHARD J. MILES, LCDR, USN
LEWIS L. COBURN, LT, USN	ARTHUR W. NELSON, III, LT, USN
JOSEPH J. DANTONE, JR, LT, USN	CARL S. PARK, JR, LT, USN
MARLE D. HEWETT, LCDR, USN	EDGAR D. PRIEST, JR, LT, USN
ARNE E. JOHNSON, LCDR, USN	CORAL V. SCHUFELDT, LCDR, USN
JAMES N. KRAFT, LT, USN	WILLIAM J. TINSTON, JR, LT, USN
RONALD J. LAIB, LT, USN	ROBERT A. WILDMAN, LT, USN

Master of Science in Computer Science

THOMAS A. BARRY, LT, USN	ALFRED H. SPRUELL, JR, LCDR, USN
JOHN N. McKAY, JR, LCDR, USN	

Master of Science in Computer Systems Management

*WALTER A. PEZET, III, LCDR, USN

Master of Science in Engineering Acoustics

LEE H. HENDERSON, LCDR, USN	PETER A. TRUMP, LT, USN
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Master of Science in Electrical Engineering

EVAGELOS BACOPOULOS, LCDR, Hellenic Navy	*GUY R. KNIERIEM, ENS, USN
RAYMOND L. BELANGER, LCDR, USN	ROBERT E. MOLLET, LT, USN
ÖZDEN BERKAN, LTJG, Turkish Navy	*DENNIS R. OLDSON, LT, USN
BRADFORD HUMPHREY, JR, LT, USN	MAURO CESAR R. PEREIRA, CDR, Brazilian Navy
*JACK U. KLAAS, LT, USN	MARVIN J. WENIGER, LT, USN

Master of Science in Management

LOREN L. CLARK, CDR, USN	*EDWARD B. HUBBARD, JR, LT, USNR
JOHN C. COGSWELL, III, LT, USN	DEAN R. LARSON, LT, USN
RONALD A. COLE, LT, USN	DANIEL B. LEAR, LT, USN
*JOSEPH I. CONVERSE, JR, LCDR, USN	*JOHN P. McNICHOLS, JR, CDR, USN
ERICH H. CRAMER, CDR, USN	MICHAEL G. MESZAROS, CDR, USNR
JAMES A. DENNIS, JR, LCDR, USN	PATRICK A. PANCOAST, LCDR, USN
*PREBEN E. EBBESEN, LT, USN	PATRICK J. SHEEDY, JR, LT, USN
PHILIP S. GUBBINS, LCDR, USN	ROBERT H. SISSON, LCDR, USN
ALAN L. HEISIG, LT, USN	PETER K. STEVENSON, CDR, USN
WILLIAM A. HIMCHAK, LCDR, USN	JOEL L. WILKINS, LT, USN MARTIN J. EGAN, LCOL, USMC

Master of Science in Operations Research

LARRY D. BACHELOR, MAJ, USA	*GEORGE F. CHRISTIAN, LT, USN
*PETER M. BENTSON, MAJ, USA	OREN B. COOKE, LCDR, USN
JAMES H. CAPPS, CPT, USA	TEDDY G. DAVIDSON, LT, USN
THOMAS P. CARNEY, MAJ, USA	GERALD W. DUNNE, LCDR, USN
PHILLIP A. COSTAIN, MAJ, USA	EUGENE S. DVORNICK, LCDR, USN
ROBERT D. EVANS, MAJ, USA	ERNEST F. GALE, JR, LT, USN
RALPH E. HAYES, MAJ, USA	RICHARD L. GATES, CDR, USN
ANSEL L. HUGGINS, JR, MAJ, USA	LEE F. GUNN, LT, USN
*WILLIAM M. KNAUER, MAJ, USA	HOWARD H. HAMILTON, LT, USN
THOMAS F. REESE, MAJ, USA	CHARLES S. HYATT, LCDR, USN
STEPHEN SILVASY, JR, MAJ, USA	PHILIP R. JACOBS, LCDR, USN
RAY D. SPINOSA, CPT, USA	CHARLES W. JONES, LT, USN
WILLIAM J. WALLACE, JR, LCDR, USCG	BJORNAR J. KIBSGAARD, LCDR, Royal Norwegian Navy
RANDALL W. AUSTIN, MAJ, USMC	KERRY E. KIRK, LCDR, USN
THEODORE T. BEAN, CAPT, USMC	JOHN W. McKINNEY, LT, USN
WILLIAM A. DAVIDSON, III, CAPT, USMC	RICHARD W. MISTER, LCDR, USN
ROBERT W. G. JONES, LCOL, USMC	HANS-DIETER MUELLER, LCDR, Federal German Navy
HAROLD J. KEELING, LCOL, USMC	TOR M. NIKOLAISEN, CDR, Royal Norwegian Navy
*WILLIAM G. KEMPLE, CAPT, USMC	TANER OZBAYKAL, LTJG, Turkish Navy
LOUIS T. NAPPI, MAJ, USMC	RICHARD S. PARODI, LT, USN
JAMES A. BIGGINS, LCDR, USN	RICHARD H. PHELAN, LCDR, USN
WAYNE H. BOSTIC, LT, USN	ROBERT T. PROBUS, LT, USN
JAMES D. BUTTINGER, LT, USN	
DAVID R. CAMPBELL, LT, USN	

Master of Science in Operations Research (Continued)

EARNEST W. RICHARDSON, LCDR, USN	ALEXANDER A. TADAY, LT, USN
ROBERT E. RINKER, LT, USN	PETER TOCHA, LCDR, Federal German Navy
JAMES W. ROONEY, LT, USN	DAVID G. WILLINGHAM, LCDR, USN
*JOHN D. SCHOENFELD, LTJG, USN	GEORGE E. WILSON, LT, USN
NICHOLAS J. STASKO, LCDR, USN	MICHAEL G. WILSON, LCDR, USN
BILLY W. SURLES, LCDR, USN	

Master of Science with Major in Mathematics

WILLIAM K. TERRELL, CAPT, USMC	JAMES N. SWAN, LT, USN
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Master of Science in Mechanical Engineering

EDWARD J. CARLSON, LT, USN	*ERCAN TURKEN, LTJG, Turkish Navy
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Master of Science in Meteorology

STEPHEN G. COLGAN, LT, USN	ROBERT P. KURTH, LT, USN
LEINO B. CORGNATI, JR, LT, USN	THOMAS J. MANTEL, LCDR, USN
ALLEN J. FRANK, LCDR, USN	CHARLES G. STEINBRUCK, LCDR, USN
LARRY L. GIAUQUE, LCDR, USN	GEORGE VARGA, LCDR, USN
PAUL B. KNOTSMAN, LCDR, USN	CHARLES E. WORKMAN, LCDR, USN
*JAMES C. KRAFT, LT, USN	*JOHN R. WRIGHT, LT, USN
JOHN J. KRALL, LCDR, USN	

Master of Science in Oceanography

RAYMOND C. ANDERSON, LCDR, USN	RAYMOND T. MICHELINI, LT, USN
WILLIAM C. BARNEY, LCDR, USN	CHARLES S. MINTER, III, LCDR, USN
GEORGE E. BOLLOW, LT, USN	AUSTEN M. OAKE, CAPT, Canadian Armed Forces
MARK F. CRANE, LCDR, USN	WILLIAM REVEZ, JR, LCDR, USN
*THOMAS W. CREWS, III, LT, USN	JOSE M. SALDANHA, LT, Portuguese Navy
ROBERT E. DELGADO, LT, USNR	JAMIE SANCHEZ C., LCDR, Colombian Navy
M. YAVUZ ERGENGIL, LT, Turkish Navy	*RICHARD H. SCHAUS, LCDR, USN
FRANK M. HUNT, JR, LCDR, USN	BRIAN H. SHOEMAKER, LCDR, USN
MARIA KAZANOWSKA, LT, USN	HARRO H. SIEBERT, LT, USN
MICHAEL J. LIEMANDT, LT, USN	GARY W. WILSON, LCDR, USN
WILLIAM J. LOUNSBERY, LCDR, USN	RALPH A. ZARDESKAS, LT, USN
ALEXANDER MARATOS, LT, Hellenic Navy	

Master of Science in Physics

*LEWIS P. GABY, II, CAPT, USAF	DONALD L. COVER, LCDR, USN
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Electrical Engineer

ÖZDEN BERKAN, LTJG, Turkish Navy	MAURO CESAR R. PEREIRA, CDR, Brazilian Navy
BRADFORD HUMPHREY, JR, LT, USN	MARVIN J. WENIGER, LT, USN
*DENNIS R. OLDSO, LT, USN	

Mechanical Engineer

*ERCAN TURKEN, LTJG, Turkish Navy

ACADEMIC DRESS

The cap and gown and colorful hood so prominent in commencement ceremonies resemble to some extent articles of dress worn by church and university dignitaries in the Middle Ages. The cap and gown indicate that the wearer is a member of a university or college. The hood shows the degree the wearer holds.

The gown for the bachelor's degree has pointed sleeves and is designed to be worn closed. The master's gown has closed sleeves, square at the end, the arms coming through a slit at the elbow; it may be worn open or closed. The doctor's gown has bell-shaped sleeves and may be worn open or closed. Down the front the doctor's gown has a facing of velvet and three bars of the same material on each sleeve. The facing and bars may be either black or the color distinctive of the subject to which the degree pertains. The cap is worn for all degrees; the doctor may wear a golden tassel.

Hoods are normally black with a colorful lining rolled outward. Bachelor's hoods are three feet long, master's three and one half feet, and doctor's four feet.

For all academic purposes, including trimmings for the doctor's gown, edgings of hoods, and tassels of caps, the colors associated with the different subjects are as follows:

Agriculture	Maize	Library Science	Lemon
Arts, Letters, Humanities	White	Music	Pink
Business, Commerce	Drab	Pharmacy	Olive Green
Education	Light Blue	Philosophy	Dark Blue
Engineering	Orange	Physical Education	Sage Green
Forestry	Russet	Science	Golden Yellow
Home Economics	Maroon	Theology	Scarlet
Law	Purple	Veterinary Science	Gray

The silk or satin lining of the hood is the color or colors of the university or college which conferred the degree. Some have a slash or chevron of contrasting color. For example:

University Granting Degree	Lining	Slash or Chevron
University of Wisconsin	Bright Red	
University of Minnesota	Old Gold	Maroon
Yale University	Blue	
University of California	Gold	Yale Blue
University of Washington	Purple Above Gold	
University of Oregon	Lemon Yellow	Dark Green
New York University	Violet	
Stanford University	Cardinal	
Columbia University	Light Blue	White
University of Michigan	Maize	Blue
University of Texas	White Above Orange	Burnt Orange
Duke University	Royal Blue	White
Cornel University	Cardinal	Two White
Harvard University	Crimson	
Michigan State University	Green	White
Iowa State University	Gold Above Cardinal	
State University of Iowa	Old Gold	
Oregon State University	Burnt Orange	
Lewis and Clark College	Princeton Orange	Black, Orange
University of Denver	Cardinal	Gold

The Naval Postgraduate School hood has a satin lining of dark blue with a gold chevron.

THE NAVAL POSTGRADUATE SCHOOL

The United States Naval Postgraduate School had a modest beginning at the Naval Academy at Annapolis in 1909, at which time the first class of ten officers enrolled in the School of Marine Engineering. In 1912, the School was designated the Postgraduate Department of the Naval Academy, and the scope of its engineering curricula was broadened to include Ordnance, Naval Construction and Civil Engineering.

After a suspension of operations during World War I, the Postgraduate Department resumed operations in 1919; two years later it was officially designated the "United States Naval Postgraduate School." A further extension of its curricula and the growth of its enrollment took place in the years between the two World Wars.

In 1927, the General Line Course was started within the Postgraduate School to acquaint junior line officers with modern developments taking place in the Navy and to broaden their professional knowledge by means of integrated courses in naval science.

World War II caused an increase in enrollment in the Engineering curricula from about 125 to over 600 and a tremendous expansion of activity in contrast to the complete suspension of operations during World War I. After hostilities ceased in 1945, a program was initiated to relocate the Postgraduate School and improve its professional status. Between 1945 and 1948, legislation was passed establishing the School as a separate activity under its own Superintendent; creating the office of Academic Dean; granting the Superintendent the right to award Bachelor's, Master's and Doctor's degrees; authorizing the re-establishment at Monterey, California, and purchasing the Del Monte site. The move to Monterey was commenced in 1948 and completed in 1951.

In 1956, the Navy Management School was established as a component of the Postgraduate School. Its mission was to provide graduate education for Naval officers in the theories, philosophies and application of scientific methods of management specifically oriented to the Navy in order to advance efficiency and economy of operation afloat and ashore. In August 1960, the Management School curriculum was lengthened from a five- to a ten-month course leading to a Master's degree for those who could meet the requirements for such a degree.

In 1958, the General Line School was redesignated as the General Line and Naval Science School and a Bachelor of Science curriculum was offered to meet the educational and career requirements of selected officers who did not have baccalaureate degrees. Further developments in the undergraduate program resulted in recognition of the need for a Bachelor of Arts curriculum, which was subsequently inaugurated in the General Line and Naval Science School in August 1961.

A major internal reorganization was approved by the Chief of Naval Personnel and became effective on 3 August 1962. The three component schools were consolidated into a single unified Postgraduate School, with academic operations under the direction of a Deputy Superintendent for Programs (military) and a Dean of Programs (civilian). The reorganization in no way changes the curricula of courses offered, but achieves unity of policy and gives emphasis to the educational programs required of the Navy.